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File: USPT

Nov 9, 1999

US-PAT-NO: 5983227

DOCUMENT-IDENTIFIER: US 5983227 A

TITLE: Dynamic page generator

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
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| Nazem; Farzad | Redwood City | CA | | |
| Patel; Ashvinkumar P | Milpitas | CA | | |

ASSIGNEE-INFORMATION:

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APPL-NO: 08/ 873975 [\[PALM\]](#)

DATE FILED: June 12, 1997

INT-CL: [06] [G06](#) [F](#) [17/30](#)

US-CL-ISSUED: 707/10; 707/104, 707/500, 707/513, 707/517, 395/200.47, 705/1, 705/10

US-CL-CURRENT: [707/10](#); [705/1](#), [705/10](#), [707/104.1](#), [709/217](#), [715/500](#), [715/513](#), [715/517](#)

FIELD-OF-SEARCH: 707/10, 707/104, 707/200, 707/500, 707/513, 707/517, 395/200.47, 395/200.48, 395/200.49, 705/1, 705/10

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
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| <input type="checkbox"/> | 5754938 | May 1998 | Herz et al. | 455/4.2 |
| <input type="checkbox"/> | 5754939 | May 1998 | Hertz et al. | 455/4.2 |
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| <input type="checkbox"/> | 5835087 | November 1998 | Herz et al. | 345/327 |
| | 5848396 | December 1998 | Gerace | 705/10 |



FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | US-CL |
|----------------|---------------|---------|-------|
| 0749081A1 | December 1996 | EP | |
| WO 97/17662 | May 1997 | WO | |

OTHER PUBLICATIONS

Garris, John, "Grab That Database", PC Magazine, vol. 15, No. 15, Sep. 10, 1996, p. NE1-NE7.

Chesnais et al., "The Fishwrap Personalized News System", IEEE, D-7803-27560X/95, Jun., 1995, pp. 275-282.

Yuri Quintana, University of Western Ontario, "Knowledge-Based Information Filtering of Financial Information," XP-002057953, May, 1997, pp. 279-285.

ART-UNIT: 271

PRIMARY-EXAMINER: Lintz; Paul R.

ATTY-AGENT-FIRM: Albert; Philip H. Townsend and Townsend and Crew LLP

ABSTRACT:

An custom page server is provided with user preferences organized into templates stored in compact data structures and the live data used to fill the templates stored local to the page server which is handing user requests for custom pages. One process is executed on the page server for every request. The process is provided a user template for the user making the request, where the user template is either generated from user preferences or retrieved from a cache of recently used user templates. Each user process is provided access to a large region of shared memory which contains all of the live data needed to fill any user template. Typically, the pages served are news pages, giving the user a custom selection of stock quotes, news headlines, sports scores, weather, and the like. With the live data stored in a local, shared memory, any custom page can be built within the page server, eliminating the need to make requests from other servers for portions of the live data. While the shared memory might include RAM (random access memory) and disk storage, in many computer systems, it is faster to store all the live data in RAM.

9 Claims, 6 Drawing figures

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|-----------|---|--------|-----------|
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| <u>L4</u> | L3 and (queryable or query\$) near data | 541 | <u>L4</u> |
| <u>L3</u> | L2 and cache | 11533 | <u>L3</u> |
| <u>L2</u> | L1 and servers! | 56811 | <u>L2</u> |
| <u>L1</u> | (network or internet or www) | 958624 | <u>L1</u> |

END OF SEARCH HISTORY